



Gulf of Mexico Harmful Algal Bloom Bulletin

25 April 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: April 21, 2005

Conditions: A harmful algal bloom has been identified in Manatee and northern Sarasota Counties. Patchy moderate to high impacts are possible in Manatee County and intermittent low impacts in northern Sarasota County to Sarasota City this afternoon and Tuesday night through Wednesday. Very low impacts are possible Tuesday afternoon and Wednesday night through Thursday in both counties. The bloom continues to dissipate along the coast.

Analysis: SW Florida - Recent imagery reveals continued dissipation of the bloom along the coast. However, just outside Tampa Bay ($27^{\circ}36'N$, $82^{\circ}47'W$) chlorophyll concentrations are elevated slightly to $5.2\mu g/L$. A fish kill was reported last week in Palma Sola Bay; medium to high concentrations of *K. brevis* were identified here by FWRI on April 22. Continued very low to low concentrations were also identified in the Sarasota Bay system at New Pass (April 18-21). Movement of the bloom is constricted by the bay systems. Intensification and expansion of the bloom outside the bay systems is unlikely through Thursday.

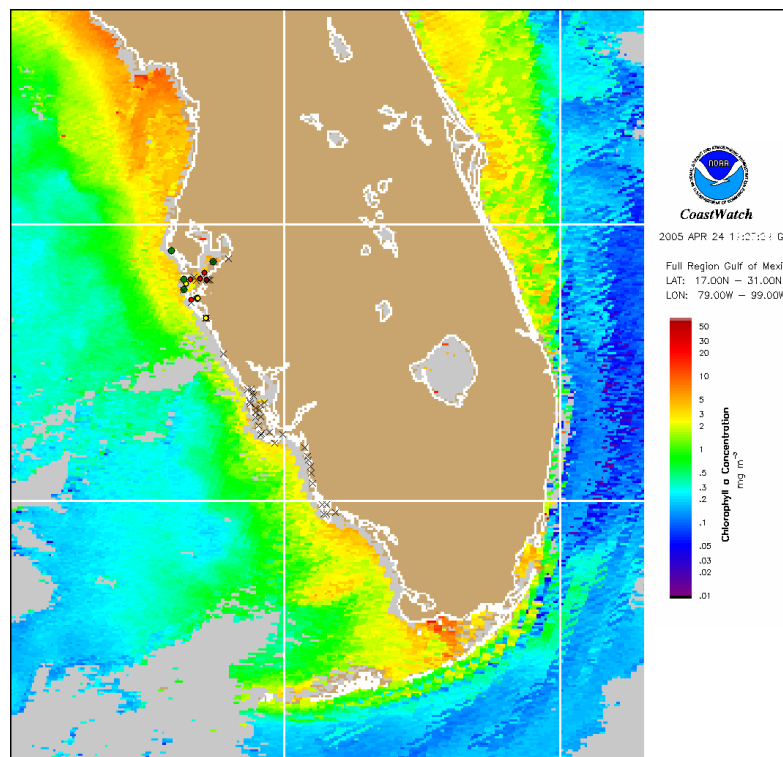
Cedar Key: FWRI reported a visual sighting of reddish discoloration 3-5 miles west of Cedar Key on April 13. Imagery continues to indicate a large band of chlorophyll along the coast elevated up to $9\mu g/L$ at $28^{\circ}55'N$, $82^{\circ}57'W$. Sampling is recommended.

Keys: No recent samples or imagery are available in the Keys. Imagery indicates elevated chlorophyll levels up to $6\mu g/L$ northwest of Marathon.

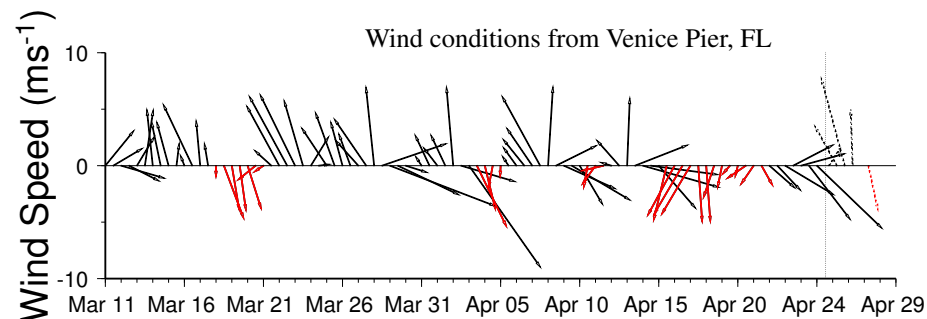
~Fisher, Bronder, Keller

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Distribution for military, or commercial purposes is NOT permitted.
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4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

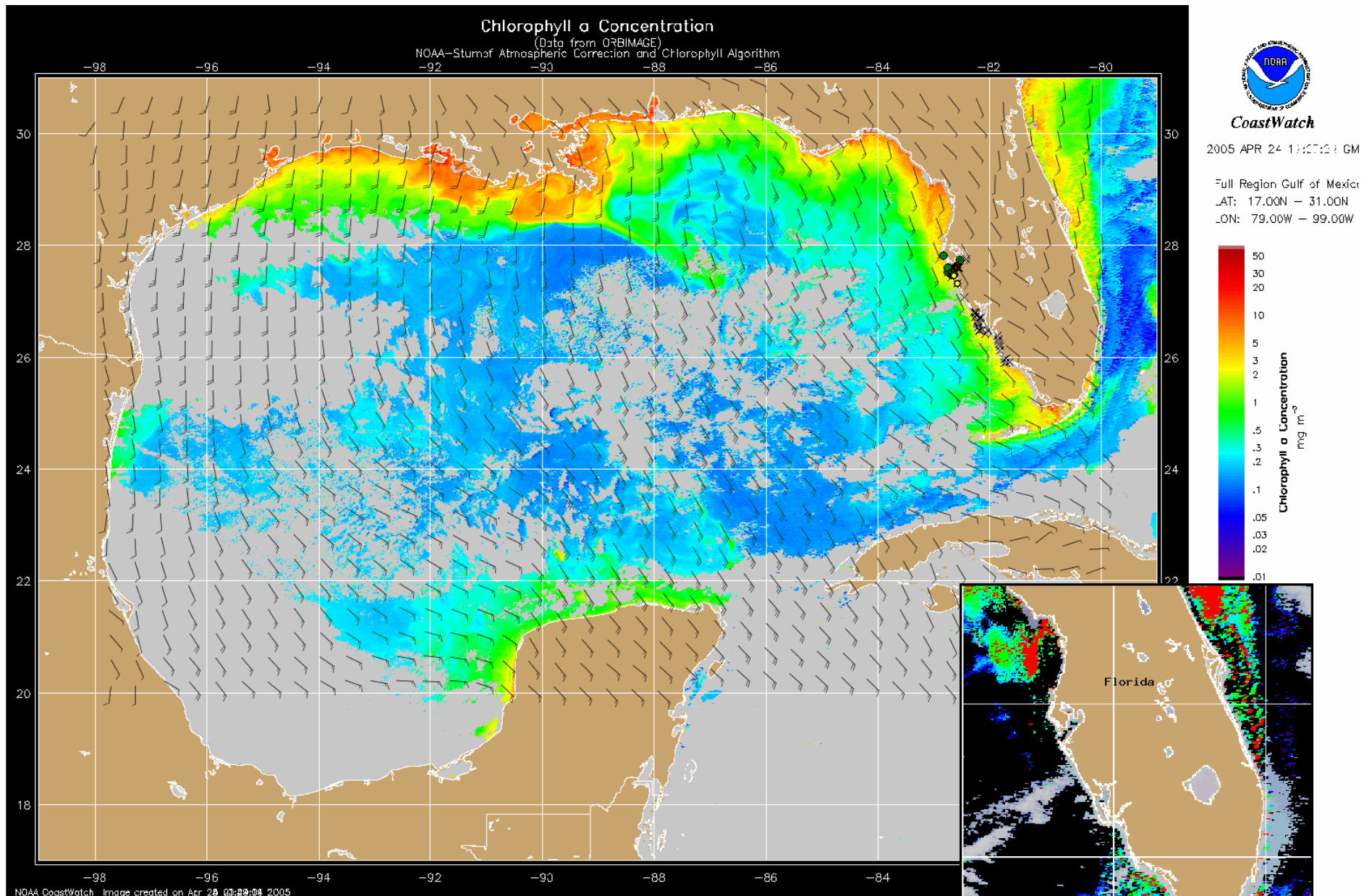


Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from April 1, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Southeasterlies (10kts, 5m/s) today, becoming onshore this afternoon, will shift to the south tonight and Tuesday, strengthening into 15 knot (8m/s) southwesterlies by Tuesday night. West winds (15kts) on Wednesday will begin weakening as they shift northwest and north Wednesday night. Northeasterlies at 10kts expected Thursday.



Chlorophyll concentration from satellite and forecast winds for April 26, 2005 06Z with cell concentration sampling data from April 1, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis and image for interpretation)